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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 9896-000064/US/NP |
| INTERNATIONAL APPLICATION NO. PCT/CA03/01554 | INTERNATIONAL FILING DATE 9 October 2003 | U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/530,983 |
| PRIORITY DATE CLAIMED 9 October 2002 | | |
| TITLE OF INVENTION Secreted Acid Phosphatase (SAPM) Is Present Only In Pathogenic Mycobacteria And Expressed Selectively At Phagosomal pH | | |
| APPLICANT(S) FOR DO/EO/US Jun Liu et al. | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| 1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input checked="" type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). | | |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------|---------------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/530,983 | | INTERNATIONAL APPLICATION NO. PCT/CA03/01554 | | ATTORNEY'S DOCKET NUMBER 9896-000064/US/NP | |
| 20. <input checked="" type="checkbox"/> Other items or information: | | Certificate of Express Transmittal (Label EV 717 340 223 US); Response to Notification to Comply with Requirements for Patent Applications; Containing Nucleotide and/or Amino Acid Sequence Disclosures; Statement Pursuant to 37 CFR 1.821(f); Paper copy of Sequence Listing; 2nd copy of Notification; Return Receipt Postcard | | | |
| 21. <input type="checkbox"/> The following fees have been submitted | | | | CALCULATIONS | PTO USE ONLY |
| Basic national fee (37 CFR 1.492(a)) \$300 | | | | \$ | |
| 22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) | | | | | |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 | | | | \$ | |
| All other situations\$200 | | | | | |
| 23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) | | | | | |
| If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 | | | | | |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority\$100 | | | | \$ | |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB\$400 | | | | | |
| All other situations\$500 | | | | | |
| TOTAL OF 21, 22 and 23 = | | | | \$ 0.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| - 100 = | /50 = | | x \$250.00 | \$ | |
| Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | |
| Total claims | - 20 = | | x | | |
| Independent claims | - 3 = | | x | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 0.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. | | | | | |
| SUBTOTAL = | | | | \$ 0.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ | |
| TOTAL NATIONAL FEE = | | | | \$ 0.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ | |
| TOTAL FEES ENCLOSED = | | | | \$ 0.00 | |
| | | | | Amount to be refunded: | \$ |
| | | | | Amount to be charged | \$ |


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☐ A check in the amount of \$ 0.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Joseph M. Lafata
HARNESS DICKEY & PIERCE, P.L.C.
P. O. Box 828
Bloomfield Hills, MI 48303
United States of America


SIGNATURE

Joseph M. Lafata
NAME

CUSTOMER NUMBER: 27572

37,166
REGISTRATION NUMBER

Dated: November 8, 2005

Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 717 340 223 US in an envelope addressed to:

MS Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on November 8, 2005
Date



Signature

Joseph M. Lafata

Typed or printed name of person signing Certificate

37,166
Registration Number, if applicable

(248) 641-1223
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Certification of Express Mailing (Label EV 717 340 223 US);
Transmittal Letter to DO/EO/US (3 pages, in duplicate);
Response to Notification to Comply with Requirements for Patent
Applications Containing Nucleotide and/or Amino Acid Sequence
Disclosures (1 page);
Statement Pursuant to 37 CFR 1.821(f) (2 pages);
Sequence Listing Paper Copy (23 pages);
Part 2 Copy of Notice;
Sequence Listing Diskette; and
Return Receipt Postcard

Docket No.: 9896-000064/US/NP
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Jun Liu et al.

Application No.: 10/530,983

Filed: April 11, 2005

For: Secreted Acid Phosphatase (SAPM) Is
Present Only In Pathogenic Mycobacteria
And Expressed Selectively At Phagosomal
pH

Confirmation No.: @ @ @

Art Unit: N/A

Examiner: Not Yet Assigned

**RESPONSE TO NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT
APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE
DISCLOSURES**

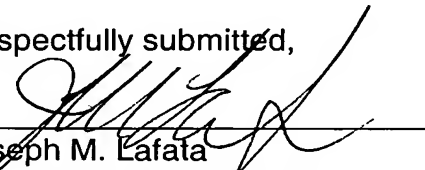
MS Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Notification To Comply With Requirements For Patent Applications Containing Nucleotide And/Or Amino Acid Sequence Disclosures mailed September 20, 2005, Applicant respectfully submits a Transmittal Letter to the United States Designated/Elected Office, a Sequence Listing Diskette, a Sequence Listing Paper Copy, a Statement Pursuant to 37 CFR 1.821(f), and a copy of the Notification.

Dated: November 8, 2005

Respectfully submitted,

By 
Joseph M. Lafata
Registration No.: 37,166
HARNESS, DICKEY & PIERCE, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1223
Attorney for Applicant



9896-000064/NP
 Notice to Comply
 Date 7/20/05
 UNITED STATES PATENT AND TRADEMARK OFFICE

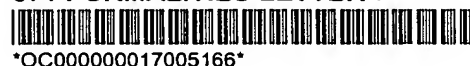
UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

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|-----------------------------|-----------------------|------------------|
| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
| 10/530,983 | Jun Liu | 9896-000064/np |

27572
 HARNESS, DICKEY & PIERCE, P.L.C.
 P.O. BOX 828
 BLOOMFIELD HILLS, MI 48303

| | |
|-------------------------------|---------------|
| INTERNATIONAL APPLICATION NO. | |
| PCT/CA03/01554 | |
| I.A. FILING DATE | PRIORITY DATE |
| 10/09/2003 | 10/09/2002 |

CONFIRMATION NO. 5758
 371 FORMALITIES LETTER



Date Mailed: 09/20/2005

NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patent Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patent Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

SHELBY J VIGIL

Telephone: (703) 308-9140 EXT 224

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|------------------|
| 10/530,983 | PCT/CA03/01554 | 9896-000064/np |

FORM PCT/DO/EO/922 (371 Formalities Notice)